Journal of Applied Mechanics

Author Index

All authors of papers published in this volume are listed alphabetically. Full titles are included in each first author's entry. Letters in parentheses follow some of the page numbers: ED indicates Editorial, TB indicates Technical Brief, D indicates Discussion, C indicates Closure, and E indicates Errata.

Abbaspour, M., and Chapman, K. S. — Nonisothermal Transient Flow in Natural Gas Pipeline. **75**, 031018

Abdul-Latif, A., and Baleh, R. — Dynamic Biaxial Plastic Buckling of Circular Shells. **75**, 031013

Abousleiman, Younane N. — (see Hoang, Son K.) **75**, 031016

Absi, Rafik — Analytical Solutions for the Modeled *k* Equation. **75**, 044501(TB)

Adams, Douglas E. — (see Haroon, Muhammad) **75**, 021017

Adams, George G. — (see Ryan, Peter J.) **75**, 031008

Adhikari, S. — Dynamic Response Characteristics of a Nonviscously Damped Oscillator. **75**, 011003

____ (see Srikantha Phani, A.) **75**, 061005

Afagh, F. F. — (see Wall, A. S.) **75**, 061004

Aifantis, Elias C. — (see Xu, Kai-Yu) **75**, 021013

Ali, Asif — (see Mehmood, Ahmer) **75**, 061003

Amer, Y. A. — (see Hegazy, U. H.) **75**, 011011

Anderson, Charles E., Jr. — (see Chocron, Sidney) **75**, 021006

Angeles, Jorge — (see Cardou, Philippe) **75**, 021003

Anlas, Gunay — (see Oral, Alpay) **75**, 051110

Apetre, N., Ruzzene, M., Hanagud, S., and Gopalakrishnan, S. — Spectral and Perturbation Analysis of First-Order Beams With Notch Damage. **75**, 031019

Arslan, M., Boyce, M. C., Qi, H. J., and Ortiz, C. — Constitutive Modeling of the Stress-Stretch Behavior of Two-Dimensional Triangulated Macromolecular Networks Containing Folded Domains. **75**, 011020

Arya, H. — (see Shimpi, R. P.) **75**, 045504(C)

Ashida, Fumihiro, Sakata, Sei-ichiro, and Matsumoto, Kouhei — Structure Design of a Piezoelectric Composite Disk for Control of Thermal Stress. **75**, 061009

Ayoubi, Mohammad A., and Longuski, James M. — Analytical Solutions for Translational Motion of Spinning-Up Rigid Bodies Subject to Constant Body-Fixed Forces and Moments. **75**, 011004

Bajaj, Anil K. — (see Bidkar, Rahul A.) **75**, 041023

Baleh, R. — (see Abdul-Latif, A.) **75**, 031013

Banaszuk, Andrzej — (see Eisenhower, Bryan) **75**, 011021

Barton, Sean A. — Stability Analysis of an Inflatable Vacuum Chamber. **75**, 041010

Batra, R. C., and Gupta, S. S. — Wall Thickness and Radial Breathing Modes of Single-Walled Carbon Nanotubes. **75**, 061010

Bažant, Zdeněk P. — (see Cusatis, Gianluca) **75**, 021009

____ (see Beghini, Alessandro) **75**, 021010

Beaudoin, A. J. — (see Tonks, M. R.) **75**, 051001

Beghini, Alessandro — (see Cusatis, Gianluca) **75**, 021009

____, **Cusatis, Gianluca, and Bažant, Zdeněk P.** — Spectral Stiffness Microplane Model for Quasibrittle Composite Laminates—Part II: Calibration and Validation. **75**, 021010

Begley, Matthew R., and Utz, Marcel — Multiscale Modeling of Adsorbed Molecules on Freestanding Microfabricated Structures. **75**, 021008

Benedetti, M., Bortoluzzi, D., and Vitale, S. — A Momentum Transfer Measurement Technique Between Contacting Free-Falling Bodies in the Presence of Adhesion. **75**, 011016

Bertarelli, Alessandro, Dallocchio, Alessandro, and Kurtyka, Tadeusz — Dynamic Response of Rapidly Heated Cylindrical Rods: Longitudinal and Flexural Behavior. **75**, 031010

Bidkar, Rahul A., Raman, Arvind, and Bajaj, Anil K. — Aeroelastic Stability of Wide Webs and Narrow Ribbons in Cross Flow. **75**, 041023

Bilodeau, J.-F. — (see Picard, D.) **75**, 031017

Blair, W. — (see Kim, J. H.) **75**, 015001

Bortoluzzi, D. — (see Benedetti, M.) **75**, 011016

Boudaoud, Arezki — (see Sultan, Eric) **75**, 051002

Boutchicha, D. — (see Sahli, A.) **75**, 041021

Boyce, M. C. — (see Garg, M.) **75**, 011009

____ (see Arslan, M.) **75**, 011020

Brandenburg, N. — (see Kim, J. H.) **75**, 015001

Brock, L. M. — Dynamic Crack Extension Along the Interface of Materials That Differ in Thermal Properties: Convection and Thermal Relaxation. **75**, 021018

Buttlar, W. G. — (see Yin, H. M.) **75**, 051113

Cai, Kun, Chen, Biao-song, Zhang, Hong-wu, and Shi, Jiao — Stiffness Design of Continuum Structures by a Bionics Topology Optimization Method. **75**, 051006

Cao, Jian — (see Chen, W. Wayne) **75**, 021021

Capiez-Lernout, E., and Soize, C. — Robust Design Optimization in Computational Mechanics. **75**, 021001

Cardou, Philippe, and Angeles, Jorge — Angular Velocity Estimation From the Angular Acceleration Matrix. **75**, 021003

Carpinteri, Alberto — (see Ferro, Giuseppe) **75**, 041003

Chalivendra, Vijaya Bhaskar — (see Lee, Kwang Ho) **75**, 051101

Chan, Youn-Sha, Paulino, Glaucio H., and Fannjiang, Albert C. — Gradient Elasticity Theory for Mode III Fracture in Functionally Graded Materials—Part II: Crack Parallel to the Material Gradation. **75**, 061015

Chapman, K. S. — (see Abbaspour, M.) **75**, 031018

Chatterjee, Anindya — (see Mourya, Rahul) **75**, 024501(TB)

Chen, Biao-song — (see Cai, Kun) **75**, 051006

Chen, Bin — (see Zhao, Zhen) **75**, 041006

Chen, Cha'o-Kuang — (see Chen, Chun-I) **75**, 014506(TB)

Chen, Chun-I, Chen, Cha'o-Kuang, and Lin, Heng-Ju — Analysis of Unsteady Flow Through a Microtube With Wall Slip and Given Inlet Volume Flow Rate Variations. **75**, 014506(TB)

Chen, Jen-San, and Lin, Yong-Zhi — Snapping of a Planar Elastica With Fixed End Slopes. **75**, 041024

Chen, Jian-Zhong — (see Zhang, Neng-Hui) **75**, 044503(TB)

Chen, Linfeng, and Pindera, Marek-Jerzy — Fracture Mechanics of Periodic Multilayers With Different Microstructural Scales and Moduli Contrast. **75**, 051109

Chen, W. Wayne, Liu, Shuangbiao, and Wang, Q. Jane — Fast Fourier Transform Based Numerical Methods for Elasto-Plastic Contacts of Nominally Flat Surfaces. **75**, 011022

____, **Wang, Q. Jane, Wang, Fan, Keer, Leon M., and Cao, Jian** — Three-Dimensional Repeated Elasto-Plastic Point Contacts, Rolling, and Sliding. **75**, 021021

Chen, Y. H. — (see Li, Q.) **75**, 011010

____ (see Li, Q.) **75**, 061008

Chocron, Sidney, Walker, James D., Nicholls, Arthur E., Dannemann, Kathryn A., and Anderson, Charles E., Jr. — Analytical Model of the Confined Compression Test Used to Characterize Brittle Materials. **75**, 021006
Choi, Seung Tae — Singularities Interacting With a Coated Circular Inhomogeneity Revisited. **75**, 064501(TB)
Criado, R. — (see Ortiz, J. E.) **75**, 051108
Croll, James G. A. — (see Yamada, Seishi) **75**, 041005
Cusatis, Gianluca, Beghini, Alessandro, and Bažant, Zdeněk P. — Spectral Stiffness Microplane Model for Quasibrittle Composite Laminates—Part I: Theory. **75**, 021009
_____ (see Beghini, Alessandro) **75**, 021010

Dag, Serkan, and Ilhan, K. Ayse — Mixed-Mode Fracture Analysis of Orthotropic Functionally Graded Material Coatings Using Analytical and Computational Methods. **75**, 051104
Dallocchio, Alessandro — (see Bertarelli, Alessandro) **75**, 031010
Danicki, Eugene J. — Evaluation of Planar Harmonic Impedance for Periodic Elastic Strips of Rectangular Cross Section by Plate Mode Expansion. **75**, 041011
Dannemann, Kathryn A. — (see Chocron, Sidney) **75**, 021006
Dawson, M. A., McKinley, G. H., and Gibson, L. J. — The Dynamic Compressive Response of Open-Cell Foam Impregnated With a Newtonian Fluid. **75**, 041015
Deepak, Sangamesh R., and Ghosal, Ashitava — Special Coordinates Associated With Recursive Forward Dynamics Algorithm for Open Loop Rigid Multibody Systems. **75**, 051003
Dimentberg, M. F., Hera, A., and Naess, A. — Marginal Instability and Intermittency in Stochastic Systems—Part I: Systems With Slow Random Variations of Parameters. **75**, 041002
Drago, Anthony S., and Pindera, Marek-Jerzy — A Locally Exact Homogenization Theory for Periodic Microstructures With Isotropic Phases. **75**, 051010
Duarte, Carlos Armando — (see Kim, Dae-Jin) **75**, 051107
Dufour, Regis — (see Michon, Guilhem) **75**, 041004

Eisenhower, Bryan, Hagen, Gregory, Banaszuk, Andrzej, and Mezić, Igor — Passive Control of Limit Cycle Oscillations in a Thermoacoustic System Using Asymmetry. **75**, 011021
Eissa, M. H. — (see Hegazy, U. H.) **75**, 011011
Ekneligoda, Thushan C., and Zimmerman, Robert W. — Boundary Perturbation Solution for Nearly Circular Holes and Rigid Inclusions in an Infinite Elastic Medium. **75**, 011015
Elishakoff, Isaac, and Pentaras, Demetris — Vibration Tailoring of a Polar Orthotropic Circular Plate With a Translational Spring. **75**, 034502(TB)
_____ (see Wang, Xiaojun) **75**, 041018
Erdogan, Fazil, and Ozturk, Murat — On the Singularities in Fracture and Contact Mechanics. **75**, 051111
Eriksson, Kjell — The Support Reaction of a Simply Supported and Uniformly Loaded Thin Circular Aeolotropic Plate. **75**, 021002
Etsion, Izhak — Discussion: "A Greenwood–Williamson Model of Small-Scale Friction" (Jones, R. E., 2007, ASME J. Appl. Mech., **74**, pp. 31–40). **75**, 045501(D)
Evangelou, Simos, Limebeer, David J. N., and Tomas Rodriguez, Maria — Influence of Road Camber on Motorcycle Stability. **75**, 061020
Evans, Anthony G. — (see Valdevit, Lorenzo) **75**, 061022

Fafard, M. — (see Picard, D.) **75**, 031017
Fang, Q. H., Liu, Y. W., and Wen, P. H. — Screw Dislocations in a Three-Phase Composite Cylinder Model With Interface Stress. **75**, 041019
Fannjiang, Albert C. — (see Chan, Youn-Sha) **75**, 061015
Farris, T. N. — (see Sundaram, N.) **75**, 061017
Feng, X., Huang, Y., and Rosakis, A. J. — Stresses in a Multilayer Thin Film/Substrate System Subjected to Nonuniform Temperature. **75**, 021022
Feng, Xi-Qiao — (see Wang, Gang-Feng) **75**, 011001
Ferro, Giuseppe, and Carpinteri, Alberto — Effect of Specimen Size on the Dissipated Energy Density in Compression. **75**, 041003
Fleck, Norman A. — (see Phani, A. Srikantha) **75**, 021020
_____ (see Symons, Digby D.) **75**, 051011
Flores, Shane E., Pontin, Michael G., and Zok, Frank W. — Scratching of Elastic/Plastic Materials With Hard Spherical Indenters. **75**, 061021
Fu, Guanghui — Direct Evaluation of Pressure Distribution of Frictionless Axisymmetric Indentation Problems. **75**, 054502(TB)

Ganguli, Ranjan — (see Gunda, Jagadish Babu) **75**, 024502(TB)
Gao, Wei — (see Wang, Gang-Feng) **75**, 011001
Gao, Y. F., Xu, H. T., Oliver, W. C., and Pharr, G. M. — A Comparison of Coulomb Friction and Friction Stress Models Based on Multidimensional Nanocontact Experiments. **75**, 034504(TB)
Garg, M., Mulliken, A. D., and Boyce, M. C. — Temperature Rise in Polymeric Materials During High Rate Deformation. **75**, 011009
Gdela, K., Pietruszczak, S., Lade, P. V., and Tsopelas, P. — On Colles' Fracture: An Experimental Study Involving Structural and Material Testing. **75**, 031002
Ghosal, Ashitava — (see Deepak, Sangamesh R.) **75**, 051003
Ghosh, Somnath — (see Jain, Jayesh R.) **75**, 031011
Gibson, L. J. — (see Dawson, M. A.) **75**, 041015
Girish, J., and Ramachandra, L. S. — Stability and Vibration Behavior of Composite Cylindrical Shell Panels Under Axial Compression and Secondary Loads. **75**, 041007
Gopalakrishnan, S. — (see Mitra, Mira) **75**, 014504(TB)
_____ (see Apetre, N.) **75**, 031019
Graham-Brady, Lori, and Xu, X. Frank — Stochastic Morphological Modeling of Random Multiphase Materials. **75**, 061001
Gray, L. J. — (see Ortiz, J. E.) **75**, 051108
Guemmour, M. B. — (see Sahli, A.) **75**, 041021
Guler, Mehmet A. — Mechanical Modeling of Thin Films and Cover Plates Bonded to Graded Substrates. **75**, 051105
Gunda, Jagadish Babu, and Ganguli, Ranjan — Stiff-String Basis Functions for Vibration Analysis of High Speed Rotating Beams. **75**, 024502(TB)
Gupta, S. S. — (see Batra, R. C.) **75**, 061010
Guthrie, Michael, and Kammer, Daniel — A General Reduced Representation of One-Dimensional Frictional Interfaces. **75**, 011019

Hagedorn, Peter — (see Spelsberg-Korspeter, Gottfried) **75**, 031001
Hagen, Gregory — (see Eisenhower, Bryan) **75**, 011021
Han, Byungrin — (see Udwadia, Firdaus E.) **75**, 021011
Hanagud, S. — (see Apetre, N.) **75**, 031019
Hangan, Horia — (see Xu, Zhuyun) **75**, 021019
Haroon, Muhammad, and Adams, Douglas E. — Development of Component-Level Damage Evolution Models for Mechanical Prognosis. **75**, 021017
Hasanyan, Davresh, Qin, Zhanming, and Librescu, Liviu — Elastic Stress and Magnetic Field Concentration Near the Vertex of a Soft-Ferromagnetic 2D Compound Wedge. **75**, 041013
Hassan, Samer, and Kawaji, Masahiro — The Effects of Vibrations on Particle Motion in a Viscous Fluid Cell. **75**, 031012
He, Xiaoping — (see Zhao, Jian) **75**, 041020
Hegazy, U. H., Eissa, M. H., and Amer, Y. A. — A Time-Varying Stiffness Rotor Active Magnetic Bearings Under Combined Resonance. **75**, 011011
Hera, A. — (see Dimentberg, M. F.) **75**, 041002
Herrmann, G., and Kienzler, R. — A Reciprocity Relation Couples Newtonian and Eshelbian Mechanics. **75**, 011017

Hoang, Son K., and Abousleiman, Younane N. — Extended Green's Solution for the Stresses in an Infinite Plate With Two Equal or Unequal Circular Holes. **75**, 031016
Holmes, G. A. — (see Kim, J. H.) **75**, 015001
Hou, Peng-Fei, Luo, Wei, and Leung, Andrew Y. T. — A Point Heat Source on the Surface of a Semi-Infinite Transversely Isotropic Piezothermoelastic Material. **75**, 011013
Huang, Qinghua, and Xie, Wei-Chau — Stability of SDOF Linear Viscoelastic System Under the Excitation of Wideband Noise. **75**, 021012
Huang, Y. — (see Feng, X.) **75**, 021022
_____ (see Wu, J.) **75**, 061006
_____ (see Wu, J.) **75**, 061007
Hwang, K. C. — (see Wu, J.) **75**, 061006
_____ (see Wu, J.) **75**, 061007

Ilhan, K. Ayse — (see Dag, Serkan) **75**, 051104
Ingman, D., and Suzdalnitsky, J. — Dynamic Viscoelastic Rod Stability Modeling by Fractional Differential Operator. **75**, 014502(TB)
Iourtchenko, Daniil, Mo, Eirik, and Naess, Arvid — Reliability of Strongly Nonlinear Single Degree of Freedom Dynamic Systems by the Path Integration Method. **75**, 061016
Ishida, K. — (see Utsumi, M.) **75**, 041008
Ismail, K. A., and Stronge, W. J. — Impact of Viscoplastic Bodies: Dissipation and Restitution. **75**, 061011

Jain, Jayesh R., and Ghosh, Somnath — Homogenization Based 3D Continuum Damage Mechanics Model for Composites Undergoing Microstructural Debonding. **75**, 031011
Jain, Sachin, Rai, Durgesh C., and Sahoo, Dipti R. — Postyield Cyclic Buckling Criteria for Aluminum Shear Panels. **75**, 021015
Janardhan, G. Ranga — (see Rao, G. Venkateswara) **75**, 014505(TB)
Jia, Jianyuan — (see Zhao, Jian) **75**, 041020
Jiang, Dan — (see Li, Songjing) **75**, 041012
Jiang, Hanqing, and Zhang, Jiaping — Mechanics of Microtubule Buckling Supported by Cytoplasm. **75**, 061019
Jones, Reese — Closure to "Discussion of 'A Greenwood–Williamson Model of Small-Scale Friction' " (2008, ASME J. Appl. Mech., **75**, p. 045501). **75**, 045502(D)

Kadıoğlu, Suat — (see Yıldırım, Bora) **75**, 051106
Kammer, Daniel — (see Guthrie, Michael) **75**, 011019
Kardomateas, George A. — (see Li, Renfu) **75**, 061023
Kawaji, Masahiro — (see Hassan, Samer) **75**, 031012
KC, Amit — (see Kim, Jeong-Ho) **75**, 051112
Kebdani, S. — (see Sahli, A.) **75**, 041021
Keer, Leon M. — (see Chen, W. Wayne) **75**, 021021
Khan, Ash — (see Yeow, Y. Leong) **75**, 041001
Kienzler, R. — (see Herrmann, G.) **75**, 011017
Kim, Dae-Jin, Duarte, Carlos Armando, and Pereira, Jeronymo Peixoto — Analysis of Interacting Cracks Using the Generalized Finite Element Method With Global-Local Enrichment Functions. **75**, 051107
Kim, J. H., Brandenburg, N., McDonough, W., Blair, W., and Holmes, G. A. — A Device for Mechanically Folding Yarns and Woven Fabrics of Ballistic Fibers. **75**, 015001
Kim, Jeong-Ho, and KC, Amit — A Generalized Interaction Integral Method for the Evaluation of the *T*-Stress in Orthotropic Functionally Graded Materials Under Thermal Loading. **75**, 051112
Kirillov, Oleg N. — (see Spelsberg-Korspeter, Gottfried) **75**, 031001
Kirugulige, Madhu, and Tippur, Hareesh V. — Mixed-Mode Dynamic Crack Growth in a Functionally Graded Particulate Composite: Experimental Measurements and Finite Element Simulations. **75**, 051102
Kishimoto, Kikuo — (see Omiya, Masaki) **75**, 031006
Koguchi, Hideo — Surface Green Function With Surface Stresses and Surface Elasticity Using Stroh's Formalism. **75**, 061014
Kövecses, József — Dynamics of Mechanical Systems and the Generalized Free-Body Diagram—Part I: General Formulation. **75**, 061012
_____ Dynamics of Mechanical Systems and the Generalized Free-Body Diagram—Part II: Imposition of Constraints. **75**, 061013
Kurtyka, Tadeusz — (see Bertarelli, Alessandro) **75**, 031010

Lade, P. V. — (see Gdela, K.) **75**, 031002
Lagoudas, Dimitris C. — (see Seidel, Gary D.) **75**, 041025
Lambros, John — (see Oral, Alpay) **75**, 051110
Landis, Chad M. — (see McMeeking, Robert M.) **75**, 067002(E)
Langlois, R. G. — (see Wall, A. S.) **75**, 061004
Law, S. S., Wu, S. Q., and Shi, Z. Y. — Moving Load and Prestress Identification Using Wavelet-Based Method. **75**, 021014
Lee, Kok-Meng — (see Li, Qiang) **75**, 041014
Lee, Kwang Ho, Chalivendra, Vijaya Bhaskar, and Shukla, Arun — Dynamic Crack-Tip Stress and Displacement Fields Under Thermomechanical Loading in Functionally Graded Materials. **75**, 051101
Lei, Shaohui — (see Zheng, Chuanxiang) **75**, 041009
Leong, Yee-Kwong — (see Yeow, Y. Leong) **75**, 041001
Leung, Andrew Y. T. — (see Hou, Peng-Fei) **75**, 011013
Li, Jia — A Strain Gradient Model for Fracture Prediction in Brittle Materials. **75**, 021004
Li, Keyu, and Ren, Wei — Erratum: "Application of Miniature Ring-Core and Interferometric Strain/Slope Rosette to Determine Residual Stress Distribution With Depth—Part I: Theories" [Journal of Applied Mechanics, 2007, **74**(2), pp. 298–306]. **75**, 067001(E)
Li, Q., and Chen, Y. H. — Solution for a Semi-Permeable Interface Crack in Elastic Dielectric/Piezoelectric Bimaterials. **75**, 011010
_____, **and Chen, Y. H.** — Surface Effect and Size Dependence on the Energy Release Due to a Nanosized Hole Expansion in Plane Elastic Materials. **75**, 061008
Li, Qiang, and Lee, Kok-Meng — An Adaptive Meshless Method for Analyzing Large Mechanical Deformation and Contacts. **75**, 041014
Li, Renfu, Kardomateas, George A., and Simitses, George J. — Nonlinear Response of a Shallow Sandwich Shell With Compressible Core to Blast Loading. **75**, 061023
Li, Songjing, Yang, Chifu, and Jiang, Dan — Modeling of Hydraulic Pipeline Transients Accompanied With Cavitation and Gas Bubbles Using Parallel Genetic Algorithms. **75**, 041012
Librescu, Liviu — (see Hasanyan, Davresh) **75**, 041013
Limebeer, David J. N. — (see Evangelou, Simos) **75**, 061020
Lin, Heng-Ju — (see Chen, Chun-I) **75**, 014506(TB)
Lin, Jen Fin — (see Liou, Jeng Luen) **75**, 031015
_____ (see Shen, Yan Xing) **75**, 051009
Lin, Yong-Zhi — (see Chen, Jen-San) **75**, 041024
Liou, Jeng Luen, and Lin, Jen Fin — A Microcontact Non-Gaussian Surface Roughness Model Accounting for Elastic Recovery. **75**, 031015
Liu, Caishan — (see Zhao, Zhen) **75**, 041006
Liu, H. T., and Sun, L. Z. — A Micromechanics-Based Elastoplastic Model for Amorphous Composites With Nanoparticle Interactions. **75**, 031009
Liu, Shuangbiao — (see Chen, W. Wayne) **75**, 011022
Liu, Y. W. — (see Fang, Q. H.) **75**, 041019
Liu, Zhanke, and Young, Yin L. — Transient Response of Submerged Plates Subject to Underwater Shock Loading: An Analytical Perspective. **75**, 044504(TB)
Longuski, James M. — (see Ayoubi, Mohammad A.) **75**, 011004
Looker, Jason R., and Sader, John E. — Flexural Resonant Frequencies of Thin Rectangular Cantilever Plates. **75**, 011007
Luo, Feiquan — (see Sun, Lu) **75**, 031007

Luo, Haoxiang, and Pozrikidis, C. — Buckling of a Circular Plate Resting Over an Elastic Foundation in Simple Shear Flow. **75**, 051007
Luo, Wei — (see Hou, Peng-Fei) **75**, 011013

Ma, Wei — (see Zhao, Zhen) **75**, 041006
Mai, Eric C. — (see Pei, Jin-Song) **75**, 061002
Mai, Y.-W. — (see Wang, B.-L.) **75**, 021007
Mailybaev, Alexei A., and Seyranian, Alexander P. — Bifurcations of Equilibria in Potential Systems at Bimodal Critical Points. **75**, 021016
Manin, Lionel — (see Michon, Guilhem) **75**, 041004
Mantič, V. — (see Ortiz, J. E.) **75**, 051108
Matsumoto, Kouhei — (see Ashida, Fumihiro) **75**, 061009
McDonough, W. — (see Kim, J. H.) **75**, 015001
McGruer, Nicol E. — (see Ryan, Peter J.) **75**, 031008
McGuirk, J. J. — (see Veloudis, I.) **75**, 021005
McKinley, G. H. — (see Dawson, M. A.) **75**, 041015
McMeeking, Robert M., and Landis, Chad M. — Erratum: "Electrostatic Forces and Stored Energy for Deformable Dielectric Materials" [Journal of Applied Mechanics, 2005, **72**(4), pp. 581–590]. **75**, 067002(E)
Meera Saheb, K. — (see Rao, G. Venkateswara) **75**, 014505(TB)
Mehmood, Ahmer, and Ali, Asif — An Explicit Analytic Solution of Steady Three-Dimensional Stagnation Point Flow of Second Grade Fluid Toward a Heated Plate. **75**, 061003
Metrikine, A. V. — Parametric Instability of a Moving Particle on a Periodically Supported Infinitely Long String. **75**, 011006
Mezić, Igor — (see Eisenhower, Bryan) **75**, 011021
Michon, Guilhem, Manin, Lionel, Remond, Didier, Dufour, Regis, and Parker, Robert G. — Parametric Instability of an Axially Moving Belt Subjected to Multifrequency Excitations: Experiments and Analytical Validation. **75**, 041004
Mitra, Mira, and Gopalakrishnan, S. — Wave Propagation Analysis in Anisotropic Plate Using Wavelet Spectral Element Approach. **75**, 014504(TB)
Mo, Eirik — (see Iourtchenko, Daniil) **75**, 061016
Mourya, Rahul, and Chatterjee, Anindya — Anomalous Frictional Behavior in Collisions of Thin Disks Revisited. **75**, 024501(TB)
Mulliken, A. D. — (see Garg, M.) **75**, 011009

Naess, A. — (see Dimentberg, M. F.) **75**, 041002
Naess, Arvid — (see Iourtchenko, Daniil) **75**, 061016
Nakano, Takashi — (see Omiya, Masaki) **75**, 031006
Neilson, R. D. — (see O'Neill, F. G.) **75**, 011018
Nicholls, Arthur E. — (see Chocron, Sidney) **75**, 021006

Oliver, W. C. — (see Gao, Y. F.) **75**, 034504(TB)
Omiya, Masaki, Kishimoto, Kikuo, and Nakano, Takashi — Evaluation of the Interfacial Strength of Layered Structures by Indentation Method. **75**, 031006
O'Neill, F. G., and Neilson, R. D. — A Dynamic Model of the Deformation of a Diamond Mesh Cod-End of a Trawl Net. **75**, 011018
Oral, Alpay, Lambros, John, and Anlas, Gunay — Crack Initiation in Functionally Graded Materials Under Mixed Mode Loading: Experiments and Simulations. **75**, 051110
Ortiz, C. — (see Arslan, M.) **75**, 011020
Ortiz, J. E., Shelton, W. A., Mantič, V., Criado, R., Gray, L. J., and París, F. — A Parallel Domain Decomposition BEM Algorithm for Three-Dimensional Exponentially Graded Elasticity. **75**, 051108
Ostoja-Starzewski, M., and Shahsavari, H. — Response of a Helix Made of a Fractional Viscoelastic Material. **75**, 011012
Ostoja-Starzewski, Martin — (see Ranganathan, Shivakumar I.) **75**, 051008
Ozturk, Murat — (see Erdogan, Fazil) **75**, 051111

Pan, E. — (see Wang, X.) **75**, 014501(TB)
_____ (see Wang, X.) **75**, 054501(TB)
París, F. — (see Ortiz, J. E.) **75**, 051108
Parker, Robert G. — (see Wu, Xionghua) **75**, 031014
_____ (see Michon, Guilhem) **75**, 041004
Patel, H. G. — (see Shimpi, R. P.) **75**, 045504(C)
Paulino, G. H. — (see Yin, H. M.) **75**, 051113
Paulino, Glaucio H. — (see Pindera, Marek-Jerzy) **75**, 050301(ED)
_____ (see Chan, Youn-Sha) **75**, 061015
Pavlović, Ivan — (see Pavlović, Ratko) **75**, 041016
Pavlović, Ratko, Rajković, Predrag, and Pavlović, Ivan — Almost Sure Stability of a Moving Elastic Band. **75**, 041016
Pei, Jin-Song, and Mai, Eric C. — Constructing Multilayer Feedforward Neural Networks to Approximate Nonlinear Functions in Engineering Mechanics Applications. **75**, 061002
Pentaras, Demetris — (see Elishakoff, Isaac) **75**, 034502(TB)
Pereira, Jeronymo Peixoto — (see Kim, Dae-Jin) **75**, 051107
Phani, A. Srikantha, and Fleck, Norman A. — Elastic Boundary Layers in Two-Dimensional Isotropic Lattices. **75**, 021020
Pharr, G. M. — (see Gao, Y. F.) **75**, 034504(TB)
Picard, D., Fafard, M., Soucy, G., and Bilodeau, J.-F. — Three-Dimensional Constitutive Creep/Relaxation Model of Carbon Cathode Materials. **75**, 031017
Pietruszczak, S. — (see Gdela, K.) **75**, 031002
Pindera, Marek-Jerzy, and Paulino, Glaucio H. — Honoring Professor Erdogan's Seminal Contributions to Mixed Boundary-Value Problems of Inhomogeneous and Functionally Graded Materials. **75**, 050301(ED)
_____ (see Drago, Anthony S.) **75**, 051010
_____ (see Chen, Linfeng) **75**, 051109
Pontin, Michael G. — (see Flores, Shane E.) **75**, 061021
Pozrikidis, C. — (see Luo, Haoxiang) **75**, 051007

Qi, H. J. — (see Arslan, M.) **75**, 011020
Qin, Fei, and Yan, Dongmei — Analytical Solution of the Perturbed Magnetic Fields of Plates Under Tensile Stress. **75**, 031004
Qin, Zhanming — (see Hasanyan, Davresh) **75**, 041013
Qiu, Zhiping — (see Wang, Xiaojun) **75**, 041018

Rahmani, O. — (see Sahli, A.) **75**, 041021
Rai, Durgesh C. — (see Jain, Sachin) **75**, 021015
Rajković, Predrag — (see Pavlović, Ratko) **75**, 041016
Ram, Yitshak M., and Singh, Kumar Vikram — Active Absorption of Viscously Damped System With Time Delay. **75**, 051005
Ramachandra, L. S. — (see Girish, J.) **75**, 041007
Raman, Arvind — (see Bidkar, Rahul A.) **75**, 041023
Ranganathan, Shivakumar I., and Ostoja-Starzewski, Martin — Scale-Dependent Homogenization of Inelastic Random Polycrystals. **75**, 051008
Rao, G. Venkateswara, Meera Saheb, K., and Janardhan, G. Ranga — Simple Formula to Study the Large Amplitude Free Vibrations of Beams and Plates. **75**, 014505(TB)
Remond, Didier — (see Michon, Guilhem) **75**, 041004
Ren, Wei — (see Li, Keyu) **75**, 067001(E)
Rosakis, A. J. — (see Feng, X.) **75**, 021022
Roy, A. K. — (see Wang, X.) **75**, 014501(TB)
Ruzzene, M. — (see Apetre, N.) **75**, 031019
Ryan, Peter J., Adams, George G., and McGruer, Nicol E. — Modeling of a One-Sided Bonded and Rigid Constraint Using Beam Theory. **75**, 031008

Sader, John E. — (see Looker, Jason R.) **75**, 011007
Sahli, A., Guemmour, M. B., Kebdani, S., Boutchicha, D., and Rahmani, O. — Independent Meshing of Contact Surfaces in 3D Boundary Element Method Contact Analysis. **75**, 041021
Sahoo, Dipti R. — (see Jain, Sachin) **75**, 021015

Sakata, Sei-ichiro — (see Ashida, Fumihiro) **75**, 061009
Sano, Tomokazu — (see Sano, Yukio) **75**, 041017
Sano, Yukio, and Sano, Tomokazu — Jumps Across an Outgoing Spherical Shock Wave Front. **75**, 041017
Schilder, F. — (see Tonks, M. R.) **75**, 051001
Seidel, Gary D., and Lagoudas, Dimitris C. — A Micromechanics Model for the Thermal Conductivity of Nanotube-Polymer Nanocomposites. **75**, 041025
Seyranian, Alexander P. — (see Mailybaev, Alexei A.) **75**, 021016
Shahsavari, H. — (see Ostoja-Starzewski, M.) **75**, 011012
Sheidakov, Denis N. — (see Zubov, Leonid M.) **75**, 011002
Shelton, W. A. — (see Ortiz, J. E.) **75**, 051108
Shen, Yan Xing, and Lin, Jen Fin — Effect of Fluctuations in the Brush Conformation on the Interaction Between Polymer Brushes in a Good Solvent. **75**, 051009
Shi, Jiao — (see Cai, Kun) **75**, 051006
Shi, Z. Y. — (see Law, S. S.) **75**, 021014
Shimpi, R. P., Patel, H. G., and Arya, H. — Closure to "Discussion of 'New First-Order Shear Deformation Plate Theories' " (2008, ASME J. Appl. Mech., **75**, p. 045503). **75**, 045504(C)
Shukla, Arun — (see Lee, Kwang Ho) **75**, 051101
Shupikov, Alexander N. — (see Smetankina, Natalia V.) **75**, 051004
Simitses, George J. — (see Li, Renfu) **75**, 061023
Simmonds, J. G. — An Upper Bound on the Error in Linear Quasi-Shallow Shell Theory. **75**, 014503(TB)
_____ An Alternative to F. Y. M. Wan's Single Equation for an Elastic Right Circular Conical Shell. **75**, 041022
_____ Discussion: "New First-Order Shear Deformation Plate Theories" (Shimpi, R. P., Patel, H. G., and Arya, H., 2007, ASME J. Appl. Mech., **74**, pp. 523–533). **75**, 045503(D)
Singh, Kumar Vikram — (see Ram, Yitshak M.) **75**, 051005
Smetankina, Natalia V., Shupikov, Alexander N., Sotrikhin, Sergei Yu., and Yareshchenko, Vladimir G. — A Noncanonically Shape Laminated Plate Subjected to Impact Loading: Theory and Experiment. **75**, 051004
Śniady, Paweł — Dynamic Response of a Timoshenko Beam to a Moving Force. **75**, 024503(TB)
Soize, C. — (see Capiez-Lernout, E.) **75**, 021001
Song, J. — (see Wu, J.) **75**, 061006
_____ (see Wu, J.) **75**, 061007
Sotrikhin, Sergei Yu. — (see Smetankina, Natalia V.) **75**, 051004
Soucy, G. — (see Picard, D.) **75**, 031017
Spelsberg-Korspeter, Gottfried, Kirillov, Oleg N., and Hagedorn, Peter — Modeling and Stability Analysis of an Axially Moving Beam With Frictional Contact. **75**, 031001
Srikantha Phani, A., and Adhikari, S. — Rayleigh Quotient and Dissipative Systems. **75**, 061005
Stronge, W. J. — (see Ismail, K. A.) **75**, 061011
Sudak, L. J. — (see Wang, X.) **75**, 054501(TB)
Sultan, Eric, and Boudaoud, Arezki — The Buckling of a Swollen Thin Gel Layer Bound to a Compliant Substrate. **75**, 051002
Sun, L. Z. — (see Liu, H. T.) **75**, 031009
_____ (see Yin, H. M.) **75**, 051113
Sun, Lu, and Luo, Feiquan — Transient Wave Propagation in Multilayered Viscoelastic Media: Theory, Numerical Computation, and Validation. **75**, 031007
Sundaram, N., and Farris, T. N. — Numerical Analysis of Double Contacts of Similar Elastic Materials. **75**, 061017
Suzdalnitsky, J. — (see Ingman, D.) **75**, 014502(TB)
Symons, Digby D., and Fleck, Norman A. — The Imperfection Sensitivity of Isotropic Two-Dimensional Elastic Lattices. **75**, 051011

Temizer, İ., and Wriggers, P. — On a Mass Conservation Criterion in Micro-to-Macro Transitions. **75**, 054503(TB)
Ting, T. C. T. — Green's Functions for a Half-Space and Two Half-Spaces Bonded to a Thin Anisotropic Elastic Layer. **75**, 051103
Tippur, Hareesh V. — (see Kirugulige, Madhu) **75**, 051102
Tirosh, Jehuda — Extended Fatigue Life by Shot Peening Process via Shakedown Analysis. **75**, 011005
Toki, C. J. — Free Convection and Mass Transfer Flow Near a Moving Vertical Porous Plate: An Analytical Solution. **75**, 011014
Tomas Rodriguez, Maria — (see Evangelou, Simos) **75**, 061020
Tonks, M. R., Beaudoin, A. J., Schilder, F., and Tortorelli, D. A. — Investigation of Preferred Orientations in Planar Polycrystals. **75**, 051001
Tortorelli, D. A. — (see Tonks, M. R.) **75**, 051001
Tsopelas, P. — (see Gdela, K.) **75**, 031002

Udwadia, Firdaus E., and Han, Byungrin — Synchronization of Multiple Chaotic Gyroscopes Using the Fundamental Equation of Mechanics. **75**, 021011
Utsumi, M., and Ishida, K. — Vibration Analysis of a Floating Roof Taking Into Account the Nonlinearity of Sloshing. **75**, 041008
Utz, Marcel — (see Begley, Matthew R.) **75**, 021008

Valdevit, Lorenzo, Vermaak, Natasha, Zok, Frank W., and Evans, Anthony G. — A Materials Selection Protocol for Lightweight Actively Cooled Panels. **75**, 061022
Vallet, I. — Erratum: "Reynolds-Stress Modeling of Three-Dimensional Secondary Flows With Emphasis on Turbulent Diffusion Closure" [Journal of Applied Mechanics, 2007, **74**(6), pp. 1142–1156]. **75**, 047001(E)
Veloudis, I., Yang, Z., and McGuirk, J. J. — LES of Wall-Bounded Flows Using a New Subgrid Scale Model Based on Energy Spectrum Dissipation. **75**, 021005
Vermaak, Natasha — (see Valdevit, Lorenzo) **75**, 061022
Vitale, S. — (see Benedetti, M.) **75**, 011016

Walker, James D. — (see Chocron, Sidney) **75**, 021006
Wall, A. S., Afagh, F. F., Langlois, R. G., and Zan, S. J. — Modeling Helicopter Blade Sailing: Dynamic Formulation and Validation. **75**, 061004
Wang, B.-L., and Mai, Y.-W. — Modeling Surface Electrodes on a Piezoelectric Layer. **75**, 021007
Wang, C. Y. — Optimum Location of an Internal Hinge of a Uniform Column on an Elastic Foundation. **75**, 034501(TB)
_____ Flow Through a Lens-Shaped Duct. **75**, 034503(TB)
Wang, Fan — (see Chen, W. Wayne) **75**, 021021
Wang, Gang-Feng, Feng, Xi-Qiao, Wang, Tie-Jun, and Gao, Wei — Surface Effects on the Near-Tip Stresses for Mode-I and Mode-III Cracks. **75**, 011001
Wang, Hongxi — (see Zhao, Jian) **75**, 041020
Wang, Q. Jane — (see Chen, W. Wayne) **75**, 011022
_____ (see Chen, W. Wayne) **75**, 021021
Wang, Tie-Jun — (see Wang, Gang-Feng) **75**, 011001
Wang, X., Pan, E., and Roy, A. K. — A Functionally Graded Plane With a Circular Inclusion Under Uniform Antiplane Eigenstrain. **75**, 014501(TB)
_____, **Pan, E., and Sudak, L. J.** — Uniform Stresses Inside an Elliptical Inhomogeneity With an Imperfect Interface in Plane Elasticity. **75**, 054501(TB)
Wang, Xiaojun, Elishakoff, Isaac, and Qiu, Zhiping — Experimental Data Have to Decide Which of the Nonprobabilistic Uncertainty Descriptions—Convex Modeling or Interval Analysis—to Utilize. **75**, 041018
Wang, Yan — (see Wang, Zhong-min) **75**, 061018
Wang, Zhong-min, Wang, Yan, and Zhou, Yin-feng — Dynamic Stability of Cracked Viscoelastic Rectangular Plate Subjected to Tangential Follower Force. **75**, 061018
Wen, P. H. — (see Fang, Q. H.) **75**, 041019
Whalen, Timothy M. — Discussion: "Exploring Effective Methods for Simulating Damaged Structures With Geometric Variation: Toward Intelligent Failure Detection" (McAdams, D. A., Comella, D., and Tumer, I. Y., 2007, ASME J. Appl. Mech., **74**, pp. 191–202). **75**,

025501(D)
Wriggers, P. — (see Temizer, İ.) **75**, 054503(TB)
Wu, J., Hwang, K. C., Huang, Y., and Song, J. — A Finite-Deformation Shell Theory for Carbon Nanotubes Based on the Interatomic Potential—Part I: Basic Theory. **75**, 061006
____, Hwang, K. C., Song, J., and Huang, Y. — A Finite-Deformation Shell Theory for Carbon Nanotubes Based on the Interatomic Potential—Part II: Instability Analysis. **75**, 061007
Wu, S. Q. — (see Law, S. S.) **75**, 021014
Wu, Xionghua, and Parker, Robert G. — Modal Properties of Planetary Gears With an Elastic Continuum Ring Gear. **75**, 031014
Wu, Y., and Zhu, W. Q. — Stationary Response of MDOF Dissipated Hamiltonian Systems to Poisson White Noises. **75**, 044502(TB)

Xie, Wei-Chau — (see Huang, Qinghua) **75**, 021012
Xu, H. T. — (see Gao, Y. F.) **75**, 034504(TB)
Xu, Kai-Yu, Aifantis, Elias C., and Yan, Yong-Hua — Vibrations of Double-Walled Carbon Nanotubes With Different Boundary Conditions Between Inner and Outer Tubes. **75**, 021013
Xu, X. Frank — (see Graham-Brady, Lori) **75**, 061001
Xu, Zhuyun, Hangan, Horia, and Yu, Pei — Analytical Solutions for a Family of Gaussian Impinging Jets. **75**, 021019

Yamada, Seishi, Croll, James G. A., and Yamamoto, Nobuhisa — Nonlinear Buckling of Compressed FRP Cylindrical Shells and Their Imperfection Sensitivity. **75**, 041005
Yamamoto, Nobuhisa — (see Yamada, Seishi) **75**, 041005
Yan, Dongmei — (see Qin, Fei) **75**, 031004
Yan, Yong-Hua — (see Xu, Kai-Yu) **75**, 021013
Yang, Chifu — (see Li, Songjing) **75**, 041012
Yang, Z. — (see Veloudis, I.) **75**, 021005
Yareshchenko, Vladimir G. — (see Smetankina, Natalia V.) **75**, 051004
Yeow, Y. Leong, Leong, Yee-Kwong, and Khan, Ash — Slow Steady Viscous Flow of Newtonian Fluids in Parallel-Disk Viscometer With Wall Slip. **75**, 041001
Yıldırım, Bora, Yılmaz, Suphi, and Kadıoğlu, Suat — Delamination of Compressively Stressed Orthotropic Functionally Graded Material Coatings Under Thermal Loading. **75**, 051106
Yılmaz, Suphi — (see Yıldırım, Bora) **75**, 051106
Yin, H. M., Paulino, G. H., Buttlar, W. G., and Sun, L. Z. — Effective Thermal Conductivity of Functionally Graded Particulate Nanocomposites With Interfacial Thermal Resistance. **75**, 051113
Young, Yin L. — (see Liu, Zhanke) **75**, 044504(TB)
Yu, Pei — (see Xu, Zhuyun) **75**, 021019

Zan, S. J. — (see Wall, A. S.) **75**, 061004
Zhang, Hong-wu — (see Cai, Kun) **75**, 051006
Zhang, Jiaping — (see Jiang, Hanqing) **75**, 061019
Zhang, Neng-Hui, and Chen, Jian-Zhong — An Alternative Two-Variable Model for Bending Problems of Multilayered Beams. **75**, 044503(TB)
Zhang, Yin — Extended Stoney's Formula for a Film-Substrate Bilayer With the Effect of Interfacial Slip. **75**, 011008
Zhao, Jian, Jia, Jianyuan, He, Xiaoping, and Wang, Hongxi — Post-buckling and Snap-Through Behavior of Inclined Slender Beams. **75**, 041020
Zhao, Zhen, Liu, Caishan, Ma, Wei, and Chen, Bin — Experimental Investigation of the Painlevé Paradox in a Robotic System. **75**, 041006
Zheng, Chuanxiang, and Lei, Shaohui — Optimal Winding Conditions of Flat Steel Ribbon Wound Pressure Vessels With Controllable Stresses. **75**, 041009
Zheng, N. A. — (see Zhu, W. D.) **75**, 031003
Zhou, Yin-feng — (see Wang, Zhong-min) **75**, 061018
Zhu, W. D., and Zheng, N. A. — Exact Response of a Translating String With Arbitrarily Varying Length Under General Excitation. **75**, 031003
Zhu, W. Q. — (see Wu, Y.) **75**, 044502(TB)
Zhu, Wen-Hong — Dynamics of General Constrained Robots Derived from Rigid Bodies. **75**, 031005
Zimmerman, Robert W. — (see Ekneligoda, Thushan C.) **75**, 011015
Zok, Frank W. — (see Flores, Shane E.) **75**, 061021
____ (see Valdevit, Lorenzo) **75**, 061022
Zubov, Leonid M., and Sheidakov, Denis N. — Instability of a Hollow Elastic Cylinder Under Tension, Torsion, and Inflation. **75**, 011002